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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/538,493	03/30/2000	Geoffrey B. Rhoads	10512/0006/25SD	8045	
22850	7590 08/26/2003				
OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT, P.C.			EXAMINER		
	1940 DUKE STREET ALEXANDRIA, VA 22314			SMITHERS, MATTHEWS	
			ART UNIT	PAPER NUMBER	
			2134		
			DATE MAILED: 08/26/2003	`	

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	licant(s)			
	09/538,493	RHOADS, GEOFFREY B.			
Office Action Summary	Examiner	Art Unit			
	Matthew B Smithers	2134			
The MAILING DATE of this communication a Period for Reply	appears on the cover sheet w	ith the correspondence address			
A SHORTENED STATUTORY PERIOD FOR REF THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a r - If NO period for reply is specified above, the maximum statutory perion - Failure to reply within the set or extended period for reply will, by stat - Any reply received by the Office later than three months after the main earned patent term adjustment. See 37 CFR 1.704(b). Status	N. 1.136(a). In no event, however, may a reply within the statutory minimum of thir od will apply and will expire SIX (6) MON tute, cause the application to become AE	reply be timely filed ty (30) days will be considered timely. NTHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).			
1) Responsive to communication(s) filed on $\underline{2}$	<u> 6 December 2002</u> .				
2a) This action is FINAL . 2b)	This action is non-final.				
3) Since this application is in condition for allo closed in accordance with the practice under Disposition of Claims					
4) Claim(s) 1-133 is/are pending in the application	ation.				
4a) Of the above claim(s) is/are withd	rawn from consideration.				
5) Claim(s) is/are allowed.	Claim(s) is/are allowed.				
6) Claim(s) is/are rejected.	Claim(s) is/are rejected.				
7) Claim(s) is/are objected to.					
8) Claim(s) <u>1-133</u> are subject to restriction and	/or election requirement.				
Application Papers					
9)☐ The specification is objected to by the Exami	ner.				
10) The drawing(s) filed on is/are: a) ac	cepted or b) objected to by t	the Examiner.			
Applicant may not request that any objection to	the drawing(s) be held in abey	ance. See 37 CFR 1.85(a).			
11)☐ The proposed drawing correction filed on	is: a)□ approved b)□ o	disapproved by the Examiner.			
If approved, corrected drawings are required in	reply to this Office action.				
12) ☐ The oath or declaration is objected to by the	Examiner.				
Priority under 35 U.S.C. §§ 119 and 120					
13) Acknowledgment is made of a claim for fore	ign priority under 35 U.S.C.	§ 119(a)-(d) or (f).			
a) ☐ All b) ☐ Some * c) ☐ None of:					
1. Certified copies of the priority docume	ents have been received.				
2. Certified copies of the priority docume	ents have been received in A	Application No			
 3. Copies of the certified copies of the prapplication from the International It * See the attached detailed Office action for a lit 	Bureau (PCT Rule 17.2(a)).	·			
14) Acknowledgment is made of a claim for dome	•				
a) The translation of the foreign language p	•				
15) ☐ Acknowledgment is made of a claim for dome					
Attachment(s)					
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 	5) 🔲 Notice of	Summary (PTO-413) Paper No(s) Informal Patent Application (PTO-152) .			
2.S. Patent and Trademark Office PTO-326 (Rev. 04-01) Office	Action Summary	Part of Paper No. 9			

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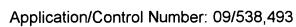
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DETAILED ACTION

Election/Restrictions

Restriction to one of the following inventions is required under 35 U.S.C. 121:

- I. Claims 1-4, 17, 31-38, 40-41, and 43-45, drawn to amplitude encoding in a signal using quantization techniques, classified in class 375, subclass 240.03.
- II. Claims 5, 42, 75-77, and 79-84, drawn to inserting and detecting abstract signal features in a signal, classified in class 375, subclass 240.08.
- III. Claims 6, 7, 23, 28-30, 46-61, 70-72, 78, 85, and 86 drawn to analyzing digital signals before encoding the signal, classified in class 375, subclass 240.29.
- IV. Claim 8, drawn to error coding using interleaved codes, classified in class714, subclass 756.
- V. Claims 9-10, 62, and 74, drawn to generating a fixed key for preprocessing message data, classified in class 380, subclass 43.
- VI. Claims 11-14, 16, 20-22, and 63-68, drawn to encoding with pseudo random key bits generated with a chaotic generator, classified in class 380, subclass 263.
- VII. Claims 15, 39, and 87-89, drawn to guaranteeing the uniqueness of a watermark, classified in class 713, subclass 176.



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- VIII. Claims 18, 19, 69, and 73, drawn to encoding a signal using inverted instances of the bit stream, classified in class 341, subclass 73.
- IX. Claims 24-27, and 90-91, drawn to automatically varying the encode/decode algorithm using watermark parameters, classified in class 380, subclass 28.
- X. Claims 94-133, drawn to pre-processing a digital signal, classified in class704, subclass 200.1.
- XI. Claims 92 and 93, drawn to enabling content after watermark verification, classified in class 380, subclass 232.

The inventions are distinct, each from the other because of the following reasons:

Inventions I-XI are related as subcombinations disclosed as usable together in a single combination. The subcombinations are distinct from each other if they are shown to be separately usable. In the instant case, inventions I-XI has separate utility such as Group I has utility as to coding any sampled digital signal through amplitude quantization; Group II has utility in detecting abstract signal features within a sampled digital signal and using the features to perform the coding process; Group III has utility in analyzing and filtering sampled digital signals to determine delimited areas of the signal; Group IV has utility in error coding a message using cross interleaved codes; Group V has utility in preprocessing a message by generating a key whose bits correspond uniquely to each bit in the message; Group VI has utility as to coding a digital data signal using pseudo-random key bits produced by a chaotic generator; Group VII has utility in verifying a watermark by checking the attached timestamp or

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hash or message digest; Group VIII has utility in encoding a signal using inverted or offsetting instance of the bit stream signal; Group IX has utility in adjusting the algorithm for the coding of the signal; Group X has utility in preprocessing a digital signal by using chosen bits from the data signal; Group XI has utility in enabling usage of content after a verification process. See MPEP § 806.05(d).

Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification, restriction for examination purposes as indicated is proper.

Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Matthew B Smithers whose telephone number is (703) 308-9293. The examiner can normally be reached on Monday-Friday (9:00-5:30) EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gregory A Morse can be reached on (703) 308-4789. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 746-7239 for regular communications and (703) 746-7238 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 305-3900.

Matthew B Smithers
Primary Examiner
Art Unit 2134

August 14, 2003